WHAT IS CLAIMED IS:

1. A guide wire comprising:

a first wire disposed on the distal side of said guide wire; and

a second wire disposed on the proximal side from said first wire;

wherein said first wire and said second wire are joined to each other by welding; and

a welded portion formed by welding has a projection projecting in the outer peripheral direction.

- 2. A guide wire according to claim 1, further comprising a cover layer disposed over at least said welded portion.
- 3. A guide wire according to claim 1, wherein said projection is visible under fluoroscopy.
- 4. A guide wire according to claim 1, further comprising a spiral coil covering at least a distal end portion of said first wire.
 - 5. A guide wire according to claim 4, wherein the proximal end of said coil abuts on said projection.
- 6. A guide wire according to claim 1, wherein the proximal side and the distal side of said projection are formed into shapes asymmetric to each other with respect to the welded surface of said welded portion.
- 7. A guide wire according to claim 1, wherein the 25 vicinity of said welded portion between said first wire and said second wire, has a thinned portion, and said projection is provided on said thinned portion.
 - 8. A guide wire comprising:

a first wire disposed on the distal side of said guide 30 wire; and

a second wire disposed on the proximal side from said first wire, said second wire having rigidity higher than that

of said first wire;

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wherein said first wire and said second wire are joined to each other by welding;

a welded portion formed by welding has a projection projecting in the outer peripheral direction;

said second wire has a first portion provided in the vicinity of the distal end of said second wire and a second portion provided on the proximal side from said first portion; and

said first portion has rigidity lower than that of said second portion.

- 9. A guide wire according to claim 8, further comprising a cover layer disposed over at least said welded portion.
- 10. A guide wire according to claim 8, wherein said projection is visible under fluoroscopy.
 - 11. Aguidewire according to claim 8, further comprising a spiral coil covering at least a distal end portion of said first wire.
- 12. A guide wire according to claim 11, wherein the proximal end of said coil abuts on said projection.
 - 13. A guide wire according to claim 8, wherein the proximal side and the distal side of said projection are formed into shapes asymmetric to each other with respect to the welded surface of said welded portion.
- 25 14. A guide wire according to claim 8, wherein the vicinity of said welded portion between said first wire and said second wire has a thinned portion, and said projection is provided on said thinned portion.
 - 15. A guide wire comprising:
- a first wire being formed of a pseudo-elastic alloy and disposed on the distal side of said guide wire; and a secondwire being formed of a Co-based alloy and disposed

on the proximal side from said first wire;
wherein said first wire and said second wire are joined to each other by welding.